

### **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### **Listing of Claims**

1. - 30. (canceled)
31. (new): A method of transmitting wellbore data from a subsurface location to a surface location, the method comprising the steps of:  
acquiring a complex formation data distribution with a formation evaluation tool positioned in the subsurface location;  
separating, at the subsurface location, the complex formation data distribution into discrete parameter distributions;  
identifying, at the subsurface location, the parameter distributions that are spurious; and  
transmitting the non-spurious parameter distributions to the surface location for reconstructing the complex formation data distribution.
32. (new): The method of claim 31, wherein each parameter distribution is interpreted independent of other parameter distributions.
33. (new): The method of claim 31, wherein the parameter distribution is selected from the group consisting of an amplitude, a mean, a standard deviation, and combinations thereof

34. (new): The method of claim 33, wherein each parameter distribution is interpreted independent of other parameter distributions.